

Isolation of thymic epithelial cells and thymocytes

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 An abbreviated version of this protocol was published in eLIFE in Aug 2020

Ageing compromises mouse thymus function and remodels epithelial cell differentiation

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Detailed protocol

Lymphocytes were released from thymic lobes, via mechanical disruption between frosted glass slides (Thermo Scientific). Cells were then washed with ice-cold FACS buffer and centrifuged at 1500rpm for 5 minutes at 4°C. Cell pellets were resuspended in FACS buffer, filtered through a 70µm cell strainer (Greiner Bio-One) and counted before being prepared for analysis and or isolation via Flow Cytometry.

Thymic cellularity of a 4 week old female C57BL/6 is ~ 400 Million cells.

How to cite: (Readers should cite both the Bio-protocol preprint and the original research article where this protocol was used)

1. Ponting, C. and Holländer, G. (2021). Isolation of thymic epithelial cells and thymocytes. Bio-protocol Preprint. bio-protocol.org/prep882.
2. Baran-Gale, J., Morgan, M. D., Maio, S., Dhalla, F., Calvo-Asensio, I., Deadman, M. E., Handel, A. E., Maynard, A., Chen, S., Green, F., Sit, R. V., Neff, N. F., Darmanis, S., Tan, W., May, A. P., Marioni, J. C., Ponting, C. P. and Holländer, G. A. (2020). Ageing compromises mouse thymus function and remodels epithelial cell differentiation. eLIFE. DOI: [10.7554/eLife.56221](https://doi.org/10.7554/eLife.56221)

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